



**hydewa<sup>®</sup>**



**GLASBORD<sup>®</sup>**

CEILINGS AND WALL SYSTEMS

# FROM THE ASSEMBLY COMPANY TO SYSTEM DEVELOPER

The history of Hydewa begins with the founding of an assembly company in the 1980s.

In the early years, the company used PVC cladding, which was common at the time, but in 1990, while exporting its PVC panels, the innovative company not only discovered the modern Glasbord® material made of glass fibre reinforced plastic (GRP), but also immediately recognized the pioneering importance of GRP panels for use in production and storage facilities that require the highest standards of hygiene. The immediate application for distribution rights was quickly crowned with success: the Upper Franconian specialists for hygienic ceiling and wall systems were granted the right to distribute Glasbord® in several European countries.

With the establishment of the GmbH in November 1998, the company specialized specializing in system development and the sale of project-specific building hygiene solutions. Who would have guessed at the time that this company would develop into a competent Glasbord® system developer, the world's largest Glasbord® distributor outside North America, the market leader in German-speaking countries and thus a top address in the field of building hygiene?

In order to meet demand and drive forward technical development, we decided to build our own production line.

We have been producing sandwich panels here since November 2013. This specially designed production line produces and packs panels of the highest precision with extremely low tolerances over a total length of around 90 meters.

The production line also allows us to realize special solutions with different cover layers and core materials and now enables us to advance developments in order to be able to react better to market situations.

Hydewa GmbH's most successful product continues to be Glasbord®, which - not least thanks to the non-porous Surfaseal® surface finish - is used primarily in food processing plants, but also in the medical, pharmaceutical and cosmetics industries due to its excellent hygiene conditions and extremely easy cleaning.

## Foundation of the GmbH

New distribution channels and structures in German-speaking countries (Germany, Austria and Switzerland).

## Sales expansion France

At the end of 2008, distribution rights were promised for France, which were implemented with the founding and partnership in Hydewa France S.A.S. in January 2009.

## Distribution rights for Great Britain

Since February 2010, we have also the distribution rights for Great Britain with the subsidiary Hydewa UK Ltd.

1998

2008/2009

2010



### **Own production**

In order to meet the demand and drive forward technical development, we have been producing sandwich  
November 2013, we have been producing

### **Sales partner Italy**

Since 2015, we have been working with the company  
Ferbox from Legnano has been a Hydewa distribution partner on the Italian market.

### **Expansion Weidenberg**

Construction measures for storage and loading traffic completed. Storage capacity expanded by approx. 1,700 m<sup>2</sup>.  
Optimization of logistics processing.

### **Hydewa Benelux**

Sales expansion to Benelux. Foundation of Hydewa Benelux.

2013

2015

2017/2018



# INDIVIDUAL HYGIENE FOR EVERY INDUSTRY



Bacteria-free kitchen walls and ceilings with Glasbord®.

## COMMERCIAL KITCHENS

Grease and vapors are part of everyday life, especially in commercial kitchens. They form stubborn deposits on walls and ceilings and are difficult to remove from ordinary surfaces without leaving any residue. The Glasbord® surface can be easily cleaned of even the most stubborn stains.



Temperature-resistant and food-safe Glasbord®.

## COLD STORAGE ROOMS

One particular challenge with cold storage rooms is the temperature differences when closing and opening. Condensation usually forms during this process. This simply rolls off the Glasbord®. The panels are also corrosion-free.



Use of Glasbord® in cheese production.

## FOOD PRODUCTION

High hygiene standards apply in food production, stipulated by the LFGB. Glasbord® panels meet all the requirements of current food legislation. Hydewa guarantees perfect cleanliness and high resistance, even when exposed to cleaning agents.



No chance for mold and condensation thanks to Glasbord®.

## ALPINE DAIRIES AND DIRECT MARKETERS

Alpine dairies, direct marketers and farm stores also need impeccable hygiene conditions when selling their food. Glasbord® helps to ensure that the perfect ripening conditions can be maintained.



Scratch-resistant, non-hazardous material.

## MUNICIPAL FACILITIES

Walls in communal facilities (kindergartens etc.) are exposed to countless influences. They must be robust and scratch-resistant. The special mounting adhesive does not emit any vapors and is harmless to health (EC1+). The white coloring creates bright, friendly rooms.



Optimum hygiene and cleanability for sanitary rooms.

## SANITARY AREAS

In the sanitary area in particular, it is important to be able to clean the rooms easily. The moisture-resistant Glasbord® panels with the special Surfaseal® sealant meet precisely this requirement. With just a few simple steps, you can quickly have a clean sanitary area again.



Glasbord® is ideally suited for use in hospitals.

## HOSPITALS

Glass shelf® panels from Hydewa are ideally suited for use in hospitals. Thanks to the special Surfaseal® surface sealant, the ceiling and wall panels are resistant to disinfectants and easy to keep clean.



Chemical-resistant glass shelf® for clean rooms.

## CLEAN ROOMS

Clean rooms are required for special manufacturing processes where the concentration of airborne particles must be very low. Glasbord® is resistant to chemicals and does not provide an adhesive base for any kind of particles. In addition, the structured surface ensures diffuse reflection of light.

# GLASBORD® – UNBEATABLE PROPERTIES

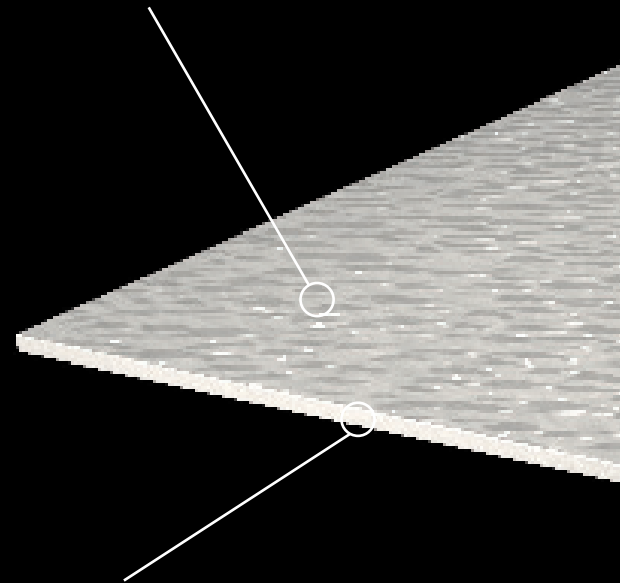
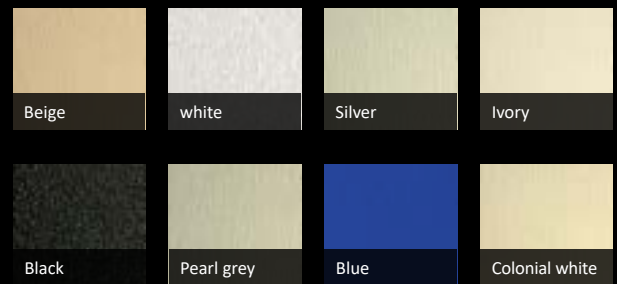
The most important thing about our Glasbord® panels is their unbeatable properties, which make them a unique premium product. Glasbord® panels can be individually adapted to the respective areas of application and operational requirements. Thanks to the non-porous surface sealing Surfaseal, the FRP panel meets the strict requirements of the relevant guidelines for food hygiene.

hygiene. The FRP sandwich panels from Hydewa can be used as interior partition walls, facing shells or ceiling panels

The manufacturer maintains its own research departments and a quality management system in accordance with ISO 9002 in order to guarantee the development and quality assurance of the materials at the highest level. Glasbord® has many advantages over tiles: For example, the low joint content of Glasbord® provides less space for bacteria to colonize in contrast to conventional tiled surfaces. In addition, Glasbord® is easy to clean. The special surface sealing of the panels provides no breeding ground for germs. As the panels can be bonded directly to existing substrates, installation work is also kept to a minimum.

Hydewa offers Glasbord® both as sheet material for direct bonding and as a top layer for sandwich panels.

## Color variants



## Material variants

Different material variants (PWI, FXE-FM, PSI etc.) for different applications in terms of surface quality, fire protection class, material thickness (1.9; 2.3 or 3.0 mm) and weight (1.54 kg/m² to 4.84 kg/m²).



### EASY CLEANING

The special Surfaseal® film sealant on the surface of the Glasbord® panels makes them particularly easy to clean. Dirt can be washed off easily, quickly and without leaving any residue in just a few simple steps.



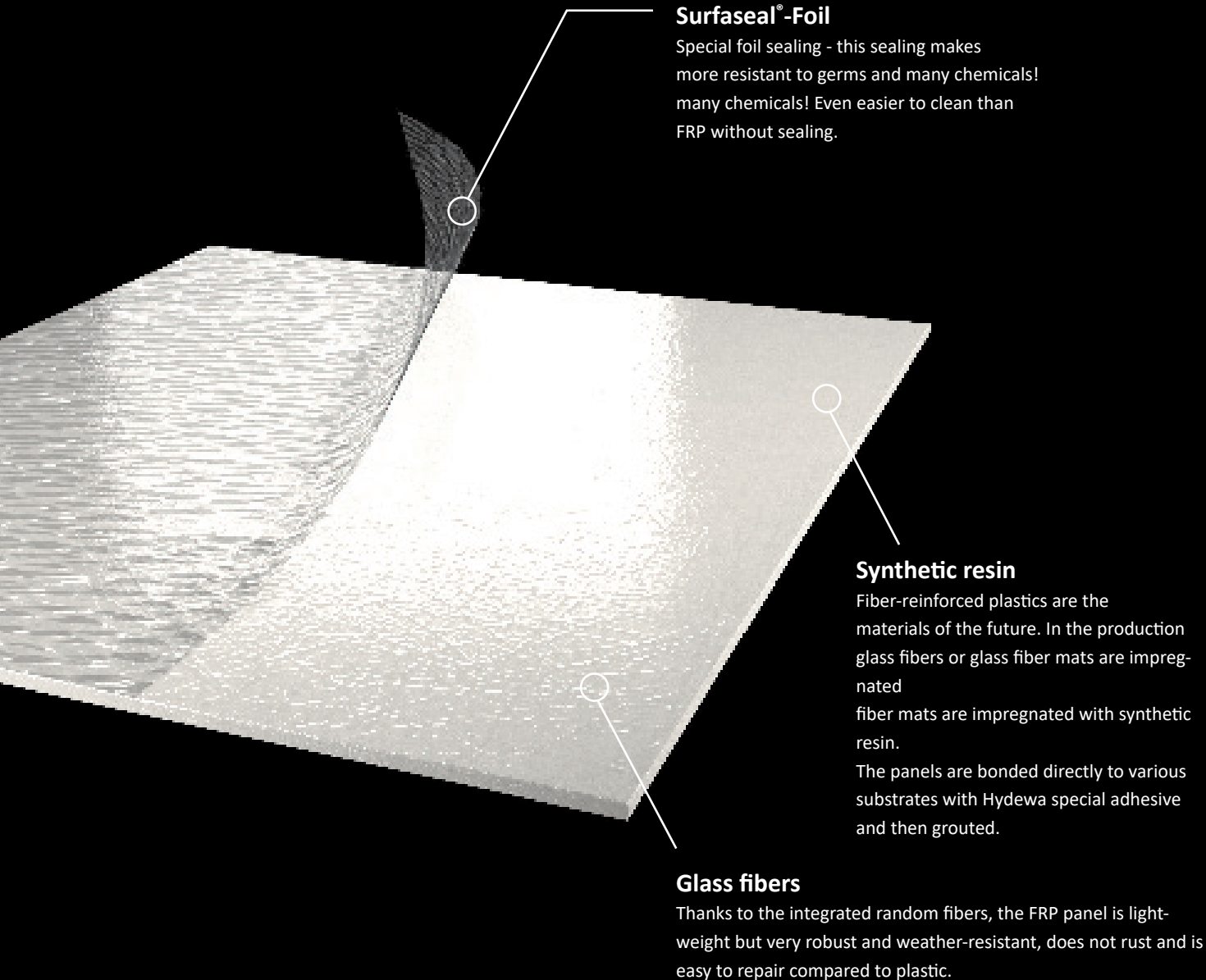
### HYGIENIC

The surface of Glasbord® does not provide a breeding ground for germs and microorganisms. Thanks to its good cleanability, no dirt remains on the surface for bacteria to adhere to - a clean thing!



### COLD RESISTANT

A wide range of temperatures is no problem for Glasbord® panels. The material is resistant to temperatures from -40 to +50° C. This makes it particularly suitable for use in cold stores or production halls.



### Surfaseal®-Foil

Special foil sealing - this sealing makes more resistant to germs and many chemicals! many chemicals! Even easier to clean than FRP without sealing.

### Synthetic resin

Fiber-reinforced plastics are the materials of the future. In the production glass fibers or glass fiber mats are impregnated fiber mats are impregnated with synthetic resin.

The panels are bonded directly to various substrates with Hydewa special adhesive and then grouted.

### Glass fibers

Thanks to the integrated random fibers, the FRP panel is light-weight but very robust and weather-resistant, does not rust and is easy to repair compared to plastic.



## FOOD SAFE

The surface of the Glasbord® panels and the sealants used during installation are approved for use in food and food processing companies. It is therefore not a problem if they come into contact with food for a short time.



## ROBUST

Hydewa's Glasbord® panels can easily withstand a variety of environmental influences. They are impact-resistant, scratch-resistant and chemical-resistant. Thanks to their excellent properties, the panels have a long service life.



## LITTLE ASSEMBLY EFFORT

Glasbord® panels guarantee faster and more efficient installation than tiles, steel or stainless steel. This is mainly due to the small number of joints in the panels. Grouting is therefore less time-consuming.





GUARANTEED NOT TO BE A „MONDAY MODEL“

## THE INSTALLATION OF GLASBORD®



### 1. Apply adhesive

This is how easy it is to install Glasbord® on existing substrates: Apply a sufficient amount of adhesive to the cleaned substrate and fill. Alternatively, the adhesive can also be applied to the back of the panels using an applicator.



### 2. Attach panels

The Glasbord® panels are fitted precisely to the right size. fitted. Spacers can be used for support. Readjustment is still possible.



# SERVICE IS VERY IMPORTANT TO US

## INDIVIDUAL ADVICE

Right from the start, we are at your side with our expert knowledge. We work closely with our development and installation team. At the same time, we gain a personal impression of your company's current situation directly on site. This enables us to coordinate the hygiene system and installation perfectly.

## CUSTOMER PROXIMITY

We are always in close contact with our customers during the development, manufacture and installation of Glasbord® panels. In the event of problems, a competent employee is on site to provide assistance and ensure that everything runs smoothly. A contact person is always available for you.

## HELP WITH CUSTOMER MEETINGS

We maintain a lively exchange of interests with reliable architects, specialists in air conditioning and ventilation technology, installation companies and cooperation partners. We are happy to establish contacts with our partners for you. We can also assist you in discussions with customers.

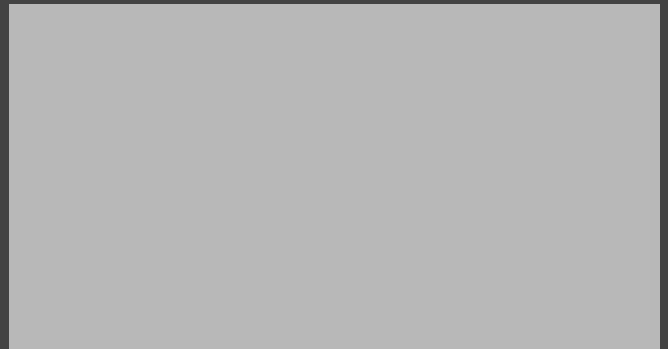
## TELEPHONE ADVICE

Do you have any questions? We will be happy to help you! Of course we can also provide you with information by telephone or by e-mail on all topics relating to our products. We will be happy to send you detailed information material on request.



### 3. Press on the panel

It is best to press the board evenly onto the substrate using a hand roller. This ensures optimum distribution of the adhesive on the usually uneven surface and promotes the adhesive bond between the adhesive and the substrate as well as the adhesive and the board.



### 4. Finished surface

A clean surface is created after grouting. The perfectly hygienic surface is finished - with few joints, durable, robust. Simply Glasbord®.

# GLASBORD®- SANDWICHPANELS

Glasbord® impresses above all with its versatility. FRP surfaces are also used for composite panels in ceiling and wall areas (e.g. as insulating or partition wall panels). The fast and flexible sandwich construction is particularly suitable for high hygienic requirements. Depending on the application, the panels are constructed with different core materials. Traditionally, expanded polystyrene (EPS) or polyisocyanurate (PIR) is used. The nature of the materials used ensures high thermal and sound insulation. In custom-made products, we can contribute to fire protection with our panels. Fitting pieces with rounded internal corners are an innovation and a further hygiene benefit. Alternatively, we offer a solution with 2x corners chamfered to 45°. These are easy to clean and safe against germs. The special corner solutions contribute to a homogeneous room climate (e.g. maturing rooms) and are easier to clean.

## Field of application

- Sandwich system with concealed fixing, low-maintenance jointing for new buildings and conversions
- Wall and ceiling mounting

## Characteristics

- High quality
- Robust surfaces
- Good thermal insulation
- Durability
- Standard dimensions 1,19 m width and up to 12 m length
- Adaptation to individual customer requirements
- Production to high standards
- Continuous quality control
- Extremely low dimensional deviations

## FRONT SIDE (1ST TOP LAYER):

Für höchste Ansprüche und jeden Bereich bieten wir die ideale Lösung. Glasbord® mit Surfaseal® strukturiert oder plan.



Glasbord® FX-FM (FXE), PWI



Glasbord® FS-FM, PSI

## CORE MATERIAL

The FRP sandwich panels (insulation panels) from Hydewa can be used as interior partition walls, facing shells or ceiling panels. Depending on the application, the panels are constructed with different core materials: EPS 20-240mm, PIR 20-140mm, R-P 45-220mm.



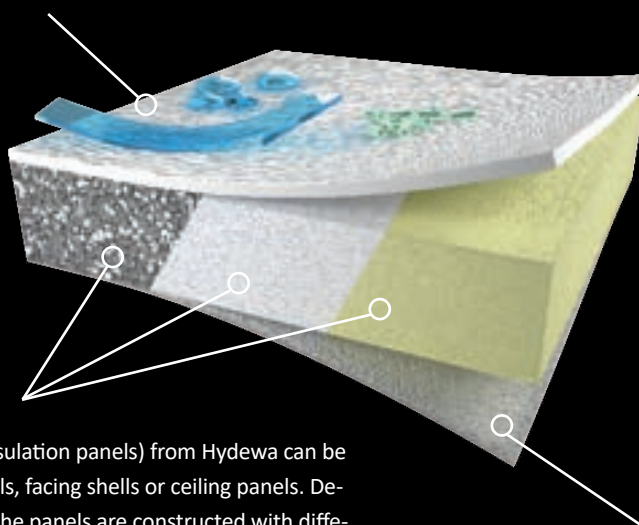
EPS



PIR



R-P



## REAR SIDE (2ND TOP LAYER): FIRE PROTECTION WITH SANDWICH PANELS

THE REAR SIDE CAN BE COATED WITH GRP JUST LIKE THE FRONT SIDE (E.G. FOR PARTITION WALL PANELS). ALTERNATIVELY, WE CAN ALSO APPLY ALUMINUM OR STEEL. THE STEEL REAR SIDE IS ALSO FITTED WITH AN INTRALOCK CLOSURE.



Glasbord®



LX-E



LX-P



Alu



Stahl

## HOT TOPIC

### FIRE PROTECTION!

In production facilities, cold storage rooms or warehouses, flame-retardant materials are required that are resistant in an emergency and produce little smoke.

The aim here is to minimize the risk of fire from the outset, plan measures to limit damage and largely rule out any risk to people. Hydewa is constantly striving to find new solutions for the use of FRP in this respect.

Legislation now places high demands on structural fire protection in certain areas. If this is not proven by suitable materials, additional costs are incurred, e.g. fire protection systems.

More and more major insurers are demanding higher insurance premiums if the requirements they set are not met.

They are also demanding FM approval certificates („Factory Mutual“) for the systems used in the buildings. This certificate is awarded by the insurance company FM Global to products that meet the highest standards. We stock fire protection panels with FM Global certification.

**We offer Glasbord® surfaces with the following fire classification:**

#### **FX – embossed**

- Strength: 1,9 mm

Fire class according to EN 13501-1: B-s1-d0 corresponds to DIN 4102 a B1

#### **FX-FM (FXE) – embossed**

- Strength: 2,3 mm to 3 mm
- Fire class according to EN 13501-1: B-s2-d0 corresponds to DIN 4102 a B1
- FM-Global-certified

#### **FS-FM – smooth**

- Strength: 1,9 mm
- Fire class according to EN 13501-1: B-s2-d0 corresponds to DIN 4102 a B1
- FM-Global-certified

Our **sandwich panels** are manufactured by us in a continuous production and can achieve a fire rating of up to **B-s2-d0** in accordance with DIN EN 13501-1 as a steel panel with an additional layer of glass. This means that they are flame retardant. The excellent fire behavior was confirmed and certified by additional tests at the MPA Dresden.



Fire development test (SBI - Single Burning Item Test)



Hydewa has been a GLASBORD® system developer  
for over 25 years.

System developer and largest international  
GLASBORD® distributor

# hydewa®



**DEVELOPMENT**

**PRODUCTION**

**DISTRIBUTION**

GLASBORD®, Surfaseal® and hydewa®  
are registered trademarks.

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